Attachment 1

Joint Application and Plans

Department of the Army/TVA

PLC# 100330

a Department of the Army (DA) permit program is authorized by Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Circler Act (P.L. 95-217). These laws require permits authorizing structures and work in or affecting navigable waters of the United States and the ischarge of dredged or fill material into waters of the United States. Section 26a of the Tennessee Valley Authority Act, as amended, prohibits onstruction, operation, or maintenance of any structure affecting navigation, flood control, or public lands or reservations across, along, or in the ennessee River or any of its tributaries until plans for such construction, operation, and maintenance have been submitted to and approved by the

lame and Address of Applicant	Name, Address, and Title of Authorized Agent						
Hallsche- Powell Utility District 3745 Cynningham 2000 elephone Number Home Office 977-972-7547	Robert G. Compbell Engineer Telephone Number Home 922-7976 Office 997-7556						
ocation where activity exists or will occur (include Stream Name and Mile, if known)	Application submitted to						
Bull Run- Mile Z±	DA 🗌 Yes 🔲 No TVA 🖂 Yes 🗇 N						
XMHR-BOPT Clinch	Date activity is proposed to commence						
OPP. Clinch R.V. 46.3 L Anderson County 9-8	Date activity is proposed to be completed						
escribe in detail the proposed activity, its purpose and intended u ected including those placed on fills, piles, or floating platforms.	se (private, public, commercial, or other). Describe structures to						

escribe in detail the proposed activity, its purpose and intended use (private, public, commercial, or other). Describe structures to rected including those placed on fills, piles, or floating platforms. Also describe the type, composition, and quantity of materials to scharged or placed in the water; the means of conveyance; and the source of discharge or fill material. Please attach additional neets if needed.

This project involves the GNSTruction of a New Row Water IN lake to supply the Hallschle Powell Utility District soring the North, section of Knox Gunty and some areas of Anderson Gunty. The District presently sorver 22,000 Gistomers. The facility is required the for the phenomenal growth in the are

FEB 22 2000

pplication is hereby made for approval of the activities described herein. I certify that I am familiar with the information contained in a application, and that to the best of my knowledge and belief such information is true, complete, and accorded. I further certify the ssess the authority to undertake the proposed activities. I agree that, if this application is improved by TVA. I will comply with a attached terms and conditions and any special conditions that may be imposed by TVA at the time of approval. Please

te the U.S. Army Corps of Engineers may impose additional conditions or pagictions

2-22-2000 Date

Signature of Applicant

U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of The United States knowingly a fully falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious or fraudulent statements or resentations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statement or entry, shall be donot more than \$10,000 or imprisoned not more than five years, or both. The appropriate DA fee will be assessed when a permit is issued.

FIELD INSPECTION CHECKLIST Section 26a and Land Use

•

_		Sect.	ion zba a	DIIE	Land	JSe	•	
{	On reservoir or regual of the contract of the contrac		TVA Tract No XMH	R- 8	0 PT		Project No. 100 33 0	2
	Applicant: Hallsdale	Powell Utility Dist.	Project Descr	ription: Row	Water	Intake		
	26a Category I	☐ 26a Category II	Ø 26a C	atego	ry III	☐ Mino	r Land Use	Other
	Yes; reference documents in the property of th	pusly reviewed such that the ment: e environmental concurre 5, 16 or 17 are marked) a include one of impact are possible, indicate line of the mental concurrence.	nce or coordir nd at least 2 s as (close up)	nation, site ph	attach D-s otographs. ne broader	Date: stage map; p Maps shot view (impa	portion of quadra ald show bounda ct area + site). In	ries of proposed
[SITE COMPATIBILITY	(Section 26a reviews of	only)	7		·		
١.	Will the proposed facility	(ies) extend beyond 1/3	of the cove or	 slougl	1?	☐ yes (modify plans)	⊠ no
2.	Will the proposed facility	(ies) affect existing facilites) such as in an outlot sit	y(ies) or any			☐ yes (modify plans)	Ž no
[]	NAVIGATION (Section		uauUII?	\neg				l
3.		lity(ies) be located near th	ne following	i		yes (coord. w/Bob chanon, WT 10C-	no
			st, indicate ar			acteristics th	nat may affect na	ivigation's
Г	RANSMISSION SYS	- 3		, 				
4.	Is there a TVA transm	ission line crossing at the	site (lot)?				coord. w/Tom italik, MR 5K-C)	□ no
	SITE INFORMATION	OBSERVATIONS				,,,	tank, with one-of	
5.	Adjacent/backlying lar no development residential recreational				commerci industrial agricultur			
6.	Natural shoreline feate ☐ undercut bank ☐ rock outcroppin ☒ height of bank in							
7.	minimal (adequate moderate (<2' ve	, rock outcrop, bluff) ate vegetative cover, gra ertical bank and/or limite cal bank and/or limited	ed vegetative	cove		ihing, rills a	ınd gullies)	
8.	Manmade shoreline fea	tures:	other _	N.F.	ne			
9.	Topography / percent (9 gentle / (0-5%)	%) slope: medium / (6-20	1%)	☐ s	teep / (>20)%)		

R.G.C. & A.

ROBERT G. CAMPBELL & ASSOCIATES, L.P.

June 14, 2001

7523 TAGGART LANE KNOXVILLE, TN 37938 (865) 947-5996 FAX (865) 947-7556 e-mail: rgcampb@aol.com

Scott Ledford Tennessee Valley Authority Melton Hill Management Office 2009 Grubb Road Lenoir City, TN 37771

Dear Mr. Ledford

I have responded to questions that you raised to the proposed intake for Hallsdale Powell Utility District.

1. Number of gallons per day will be used.

Initially there will be 6 – 7 million gallons per day. The projections for the intake at the maximum withdrawal will be 20 million gallons per day. The existing intake will be taken out of active service, but will be used once every two months or so for to exercise the pumps. It will be used as a back-up should something happen to the new intake

2. Size of screen at the end of pipe.

The screen is 4 feet in diameter and 6.5 feet long. The length includes a bullet nose protector to keep debris from fouling the screen

3. The amount of suction that this pump will create.

The pump should create no suction. There will be a draw-down of 1 foot in the wet well, but in the channel there will be little discernable difference. The reason for this is the volume of the reservoir vs. the volume that is being withdrawn.

4. Warning Signs - Size and placement.

Those will be placed in accordance with your specifications. We are planning warning signs at the intake itself along with a buoy over the screen location. In order to clean the screen, a manual backflush operation will be performed. A warning horn as well as outside spotlights illuminating the screen area will be installed.

5. Power Source

Power will come from Clinton Utilities Board. The 3 - 1000 HP motors will use a 2300 volt service. We are also investigating TVA as a secondary source of power or an emergency generator.

6. Hours of operation.

Operation will be twenty four hours, not continuously, but whenever demands occur at the treatment plant

7. Minimum water depth pump can function.

The low pool for the reservoir is elevation 790 MSL. The suction of our pump will be at nearly elevation 783.7. This gives our pumps 6.3 feet of water and allows us to meet the minimum submergence as well as the Net Positive Suction Head requirement recommended by the pump manufacturer to avoid vortex and suction problems

8. Length of pipe

There will be a total length of 270 feet from our property line. Of that, 87 feet will be out of the ground and exposed in the channel

9. Method of Anchoring pipe.

Pipe will be anchored with concrete supports placed every 20 feet apart in the exposed section. These anchors will have foundations that extend into the lake bottom at sufficient depth to provide support. Each support will be secured by threaded bolts and a plate over the top of the pipe section

10. Operation signs of schedule of suction.

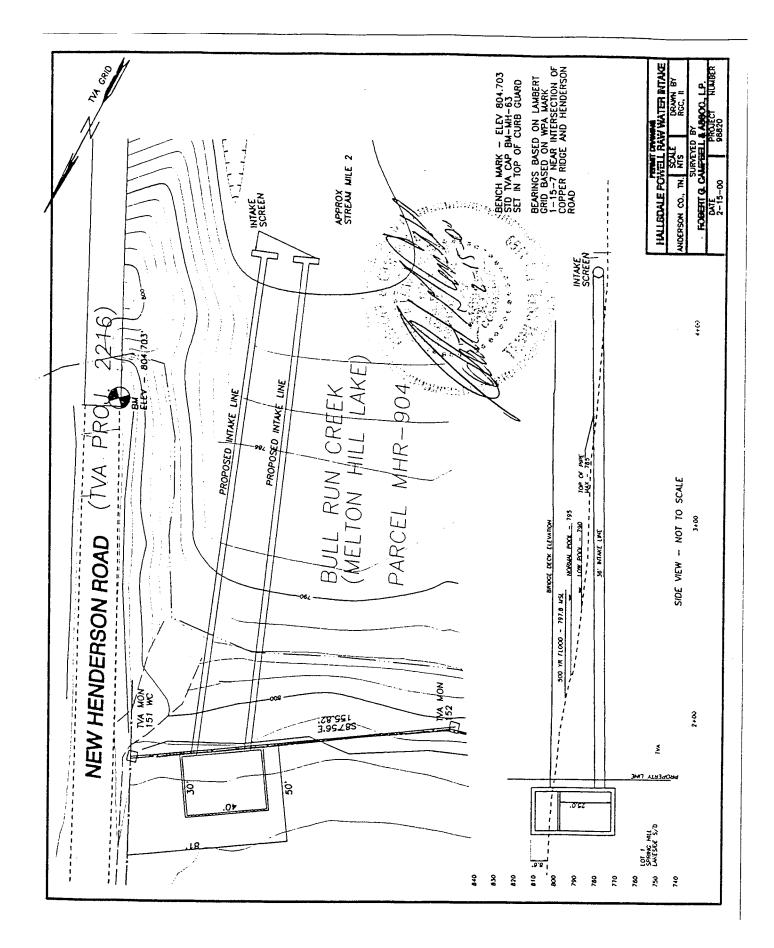
Because of the passive nature and indeterminate demand schedules from the plan, we will have no set schedule. We do plan to have warning signs posted in accordance with TVA specifications regarding the location of underwater intake structures.

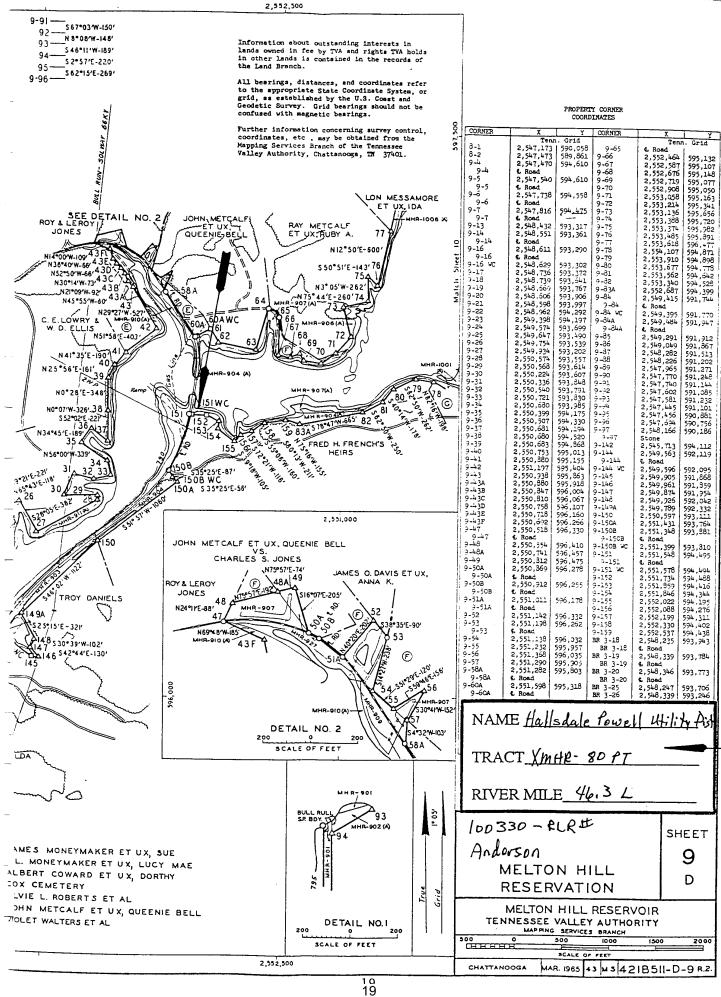
I hope this answers the questions that you may have regarding the new intake. We believe this to be a vital project for the long-term success of the district as it will improve the ability of Hallsdale Powell to serve its customers with the quantity and quality of water that the future requires.

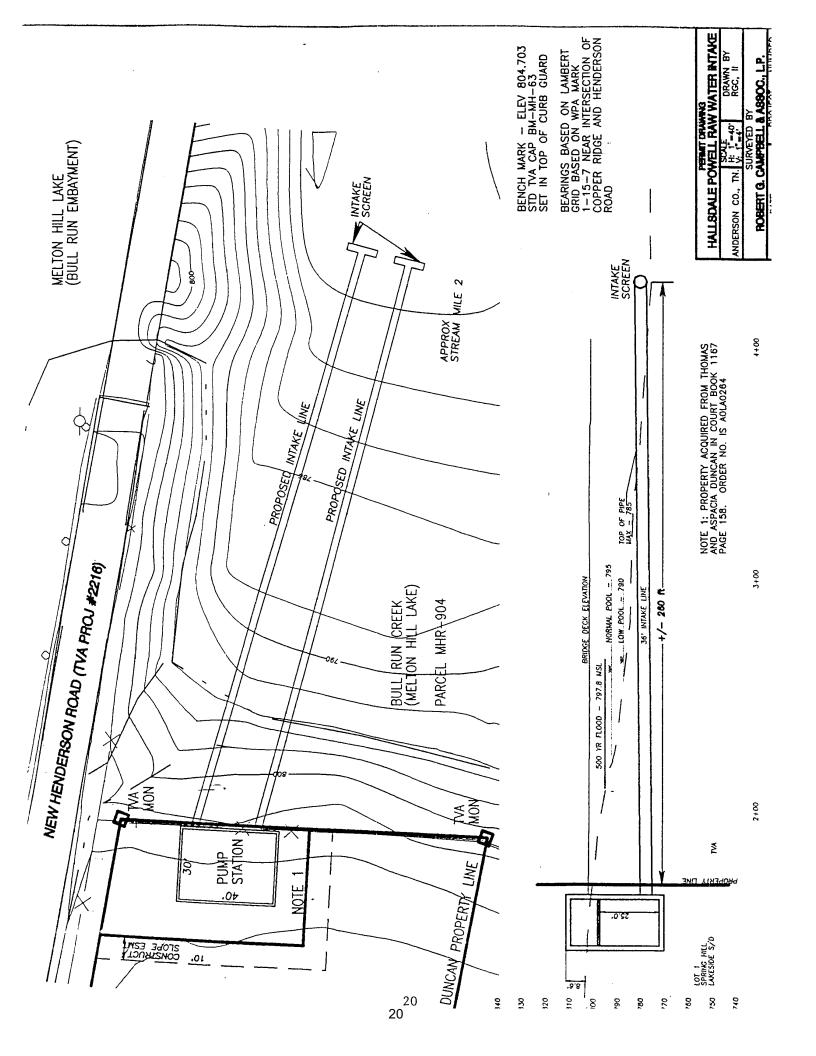
Sincerely,

Robert G. Campbell, PE

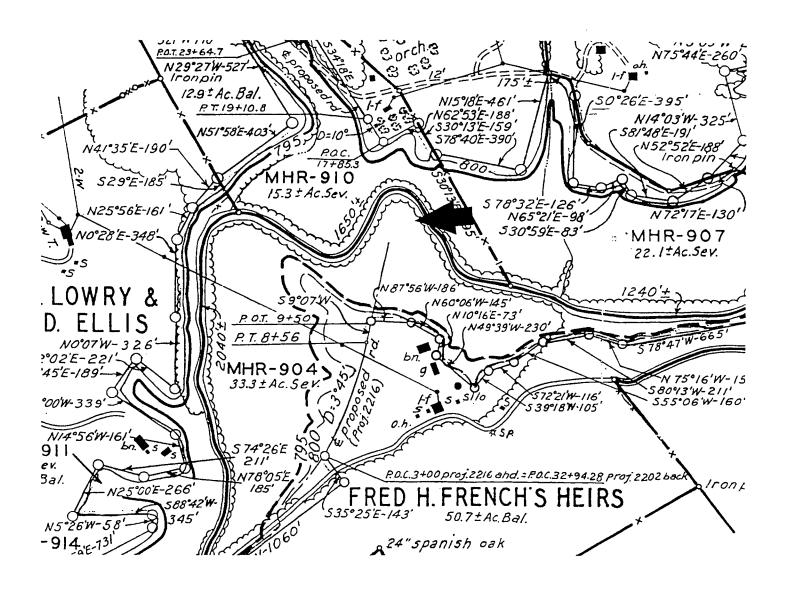
Lebert S. Compbell



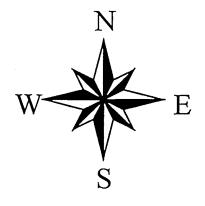




Melton Hill Reservoir



Land Acquisition Map 9D



ROBERT G. CAMPBELL & ASSOCIATES, L.P.



7523 TAGGART LANE KNOXVILLE, TN 37938 (865) 947-5996 FAX (865) 947-7556 e-mail: rgcampb@aol.com

Tennessee Valley Authority Melton Hill Land Management Office 2009 Grubb Road

Re:

Hallsdale Powell

Lenoir City, TN 37771

Raw Water Intake Melton Hill Reservoir Bull Run Mile 2± Parcel MHR - 904

Gentlemen:

Per your recent request enclosed please find an updated copy of the site plan for the proposed installation. As shown 2-36 inch diameter line will extend approximately 260 feet into the reservoir, at elevation 785.0.

November 20, 2000

If further information is required please advise.

Sincerely

Robert G. Campbell

RGC:md

Enclosure

